



Rare Plants of Louisiana



Crataegus triflora – three-flowered hawthorn

Rose family (Rosaceae)

Rarity Ranks: S1/G2

Range: AL, AR, GA, LA, MS, TN

Recognition:

- 1) Large deciduous thorny shrub
- 2) Flowers with 5 white petals and often born in 3's
- 3) Leaves doubly serrate and unlobed, widest at or below the middle

Flowering Time: March-April; **Fruit** - September-October



Photo by George Yatskievych, Missouri Botanical Garden

Light Requirement: Shade to sun

Wetland Status: Does not occur in wetlands

Habitat: Calcareous woodlands on clayey soils derived from marine deposits, containing shell fragments and other materials high in calcium carbonate. Associated species include Durand oak (*Quercus sinuata* var. *sinuata*), parsley hawthorn (*Crataegus marshallii*), little hip hawthorn (*C. spathulata*), cockspur hawthorn (*C. crus-galli*), and aromatic sumac (*Rhus aromatica*).

Threats:

- 1) Conversion of habitat to intensively-managed pine plantations – including chemical and mechanical site prep and dense spacing of planted trees
- 2) Conversion to agriculture
- 3) Residential and commercial development
- 4) Fire exclusion – fire was a historical process maintaining calcareous woodlands and imbedded prairies



Beneficial management practices:

- 1) Removal of off-site loblolly pine, while favoring shortleaf pine, if present, and managing for dry-site hardwood species
- 2) Prescribed burning to maintain open character of calcareous woodlands



Three-flowered hawthorn specimen, ruler = 2". Note leaf shape and serration, and note flowers in the upper part of specimen being in 3's. One or more of the 3 flowers may not get fertilized, so fruits may not be in 3's. Specimen image provided by LSU Herbarium.

References:

Phipps, J. B., R. Lance, & K. A. Dvorsky. 2006. *Crataegus* series *Bracteatae* and *Triflorae* (Rosaceae). Sida 22(2): 1009-1025.

USDA, NRCS. 2007. The PLANTS Database (<http://plants.usda.gov>). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.

NatureServe. 2006. NatureServe Explorer: An online encyclopedia of life [web application]. Version 6.1. NatureServe, Arlington, Virginia. Available <http://www.natureserve.org/explorer>.